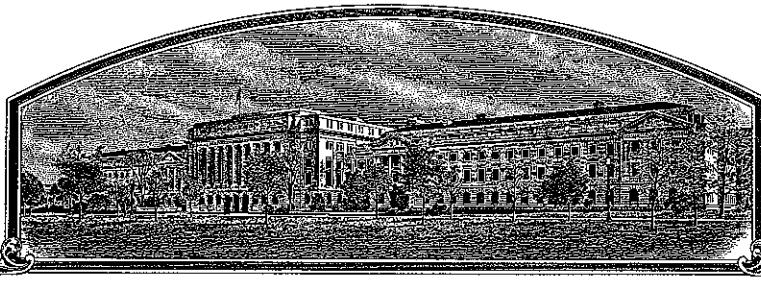


No.

200100290



# THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Pickseed West, Inc.

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSES, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

BENTGRASS, VELVET

'Vesper'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this ninth day of June, in the year two thousand and six.

Attest:



Commissioner  
Plant Variety Protection Office  
Agricultural Marketing Service



Secretary of Agriculture

REPRODUCE LOCALLY. Include form number and date on all reproductions

Form Approved - OMB No. 0581-0055

U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE  
(Instructions and information collection burden statement on reverse)

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF OWNER Pickseed West, Inc.		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME Pick MVB		3. VARIETY NAME Vesper	
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country) 30190 Hwy 34 SW Albany, OR 97321		5. TELEPHONE (include area code) 541-967-0123		FOR OFFICIAL USE ONLY PVPO NUMBER 200100290	
6. FAX (include area code) 541-967-6103		7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) Corporation		8. IF INCORPORATED, GIVE STATE OF INCORPORATION Oregon	
9. DATE OF INCORPORATION 1968 Aug. 15		10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. (First person listed will receive all papers) Donald J. Floyd Pickseed West, Inc. 30190 Hwy 34 SW Albany, OR 97321		FILING DATE September 19, 2001	
11. TELEPHONE (include area code) 541-967-0123		12. FAX (include area code) 541-967-6103		FILING AND EXAMINATION FEES: \$ 2705- DATE 9/19/2001 CERTIFICATION FEE: \$ 768- DATE 5/1/2006	
13. E-MAIL dfloydpswres@proaxis.com		14. CROP KIND (Common Name) Velvet Bentgrass		15. GENUS AND SPECIES NAME OF CROP Agrostis canina	
16. FAMILY NAME (Botanical) Poaceae		17. IS THE VARIETY A FIRST GENERATION HYBRID? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse) a. <input checked="" type="checkbox"/> Exhibit A. Origin and Breeding History of the Variety b. <input checked="" type="checkbox"/> Exhibit B. Statement of Distinctness c. <input checked="" type="checkbox"/> Exhibit C. Objective Description of Variety d. <input type="checkbox"/> Exhibit D. Additional Description of the Variety (Optional) e. <input checked="" type="checkbox"/> Exhibit E. Statement of the Basis of the Owner's Ownership f. <input checked="" type="checkbox"/> Voucher Sample (2,500 viable untreated seeds or, for tuber propagated varieties, verification that tissue culture will be deposited and maintained in an approved public repository) g. <input checked="" type="checkbox"/> Filing and Examination Fee (\$2,705), made payable to "Treasurer of the United States" (Mail to the Plant Variety Protection Office)	
19. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? See Section 83(a) of the Plant Variety Protection Act <input type="checkbox"/> YES (If "yes", answer items 20 and 21 below) <input checked="" type="checkbox"/> NO (If "no", go to item 22)		20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF CLASSES? IF YES, WHICH CLASSES? <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED		21. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? IF YES, SPECIFY THE <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED NUMBER 1,2,3, etc. (If additional explanation is necessary, please use the space indicated on the reverse.)	
22. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.)		23. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.)		24. The owners declare that a viable sample of basic seed of the variety will be furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate. The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act. Owner(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.	
SIGNATURE OF OWNER Donald J. Floyd		SIGNATURE OF OWNER		NAME (Please print or type) Donald J. Floyd	
CAPACITY OR TITLE Director of Research		DATE 9-18-01		CAPACITY OR TITLE DATE	

## INSTRUCTIONS

2000290

**GENERAL:** To be effectively filed with the Plant Variety Protection Office (PVPO), **ALL** of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$2,705 (\$320 filing fee and \$2,385 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfilled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 500, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. **DO NOT** use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$320 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

## Plant Variety Protection Office

Telephone: (301) 504-5518

FAX: (301) 504-5291

Homepage: <http://www.ams.usda.gov/science/pvpo/pvp.htm>

## ITEM

- 18a. Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method; (2) the details of subsequent stages of selection and multiplication; (3) evidence of uniformity and stability; and (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
- (1) identify these varieties and state all differences objectively;
  - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
  - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 18d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
19. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant **MAY NOT** reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
22. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
23. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.

21. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)

22. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

First date of sale in USA, September 25, 2000.

23. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

**NOTES:** It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority. For example, for agricultural and vegetable crops, contact: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center-East, Beltsville, MD 20705. Telephone: (301) 504-8089. <http://www.ams.usda.gov/lsg/seed/lis-sd.htm>

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this collection of information is (0581-0055). The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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S&T-470 (04-01) designed by the Plant Variety Protection Office with WordPerfect 6.0a. Replaces STD-470 (02-99) which is obsolete.

2

**Exhibit A**  
**Origin and Breeding History**  
***Vesper (Pick MVB) velvet bentgrass***

In 1984 Emanuel Francis from the Vesper Country Club in Massachusetts sent live samples of a velvet bentgrass (*Agrostis canina* L.) site collection to Pickseed West, Inc., Albany, OR (PSW). The selections came from a location on the Country Club that was originally seeded with *South German* mixed bentgrass. The vegetative grass samples were separated out by individual tiller, and planted in a small spaced plant nursery at PSW in the autumn of 1984. After rouging the nursery in the spring of 1985 of plants exhibiting low vigor, the remaining plants were allowed to interpollinate. A bulk seed harvest was conducted in 1985. A sample of the bulked seed was sent to Rutgers University Horticultural Farm, New Brunswick, NJ and was planted as four turf plots along with standard varieties and experimental selections of creeping bentgrass (*Agrostis pulustris* Huds.).

After about five years of mowing at 1/4 inch, the *Emanuel Francis* velvet bentgrass had mostly disappeared from the plots seeded in 1985. At this time, the mowing height was lowered to 5/32 inch and the velvet bentgrass gradually began to dominate the original plots. It appeared that an extremely small percentage of the original seedlings were able to thrive under the conditions of this test and produce patches averaging about 6 inches in diameter. The most attractive of these were selected during the summer of 1996 and transferred to a spaced plant nursery at the Rutgers Plant Science Research Farm at Adelphia, NJ, along with many selections from old golf courses of the mid-Atlantic and northeastern regions of the United States. Fifty-seven parental clones of velvet bentgrass were selected from this nursery immediately prior to anthesis in June of 1997, and placed in an isolated block set up for a polycross. Seed was subsequently harvested from 47 plants showing the best vigor including good floret fertility. Selection of the parental clones of *Vesper* was based on an attractive, medium-dark green color, medium reproductive maturity, a leafy low-growing turf-type growth habit, and freedom from disease. Harvested clones included 45 plants selected from the *Emanuel Francis* seed source and two plants selected from Lake Success Country Club, New York. The seed source for what was planted at Lake Success is unknown, but it most likely was seeded with *South German* mixed bentgrass.

One-half gram seed of each of the selected maternal progenies was sent to PSW in August 1997. Once received, the seed was germinated at a commercial seed laboratory after a stratification (pre-chill) treatment was conducted. Seedlings were transferred to soil via plantlet flats, and cultured in a greenhouse environment at PSW until November 1997; at which time plantlets were transplanted to a field nursery.

It was not possible to establish equal numbers of progeny for each half-sib family into the field nursery, because of differential percentages of germination and greenhouse survival of progenies. The families and number of progeny plants transplanted are noted:

Family	Number of Progeny Plants	Family	Number of Progeny Plants
MVB-1	38	MVB-31	42
MVB-3	62	MVB-32	67
MVB-4	56	MVB-33	114
MVB-5	36	MVB-34	112
MVB-6	78	MVB-35	85
MVB-7	25	MVB-37	111
MVB-8	36	MVB-38	73
MVB-9	79	MVB-39	169
MVB-10	28	MVB-40	95
MVB-12	27	MVB-41	51
MVB-13	64	MVB-42	67
MVB-14	28	MVB-43	95
MVB-15	96	MVB-45	84
MVB-17	51	MVB-46	34
MVB-18	74	MVB-47	59
MVB-19	74	MVB-48	46
MVB-20	99	MVB-50	66
MVB-22	60	MVB-52	88
MVB-24	97	MVB-53	76
MVB-25	45	MVB-54	43
MVB-26	73	MVB-55	83
MVB-27	93	MVB-56	42
MVB-28	30	MVB-57	51
MVB-30	121		
<b>Total</b>		<b>3223</b>	

During May and June 1998, 542 individuals plants (i.e. 17%) were discarded from among and within families, prior to anthesis. These plants exhibited lighter foliage color, a stemmy growth habit, lower vigor, and earlier reproductive heading, than the mean of the population. Included in the total of rogued individuals, were those physical contaminants that were creeping bentgrass and Colonial bentgrass (*Agrostis tenuis* Sibth). The remaining individuals in the nursery were allowed to interpollinate, i.e. interpollination of 47 half-sib families.

On July 28, 1998, bulk seed from the population was harvested as breeder source. A sample of this seed was used to enter the cultivar into the 1998 putting green test of the National Turfgrass Evaluation Program. An additional supply of breeder seed was harvested from the above nursery in July 1999. This seed was used as seed stock for foundation seed increase in 2000. Certified seed was harvested in 2001. The cultivar appears to be stable in its seed production performance with expression of only a trace amount (less than 0.5%) of off-types from

generations of seed increase, breeder to foundation to certified generations. The off-types are not considered part of the variety. They occur naturally in the seed production areas of western Oregon (where the variety has been multiplied to date). The off-types are of a lighter green foliage color, and of a coarser foliage texture than plants representative of *Vesper*. These off-types plants most likely occur from seeds in the soil reserves indicative of previous cropping sequences in western Oregon. Every attempt is made to remove off-types prior to anthesis each generation of seed increase of the variety. Variant plants among generations of seed increase have not been observed.

**Exhibit B**  
**Origin and Breeding History**  
***Vesper* (Pick MVB) velvet bentgrass**

*Vesper* is most similar to *SR 7200*. *Vesper* can be distinguished from *SR 7200* by the following characteristics:

1. In turf trials conducted in the states of Illinois, Oklahoma, and Wisconsin, *Vesper* has shown to exhibit darker foliage color than *SR 7200* (Table 1).
2. In a turf trial conducted at Amherst, MA, *Vesper* has shown later spring green-up than *SR 7200* in the 1999 and 2000 seasons (Table 2).
3. The lemma pubescence for *Vesper* is copius, while that of *SR 7200* is glabrous.
4. The panicle branch shape in fruit for *Vesper* is ascending, while that of *SR 7200* is spreading.

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U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
SCIENCE AND TECHNOLOGY PROGRAM  
PLANT VARIETY PROTECTION OFFICE  
BELTSVILLE, MD 20705

EXHIBIT C  
(BENTGRASS)

OBJECTIVE DESCRIPTION OF VARIETY  
BENTGRASS  
(*Agrostis* spp.)

NAME OF APPLICANT(S) Pickseed West, Inc.	TEMPORARY DESIGNATION Pick MVB	VARIETY NAME Vesper
ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code) 30190 Hwy 34 SW Albany, OR 97321		FOR OFFICIAL USE ONLY PVPO NUMBER 200100290

Place the appropriate number that describes the varietal characteristics of this variety in the boxes below. Use leading zeroes when necessary e.g. 089. Descriptions of characters should represent those that are typical for the variety. Ranges may be given also. Measured data should be for SPACED PLANTS. Give additional description for all characteristics that cannot be adequately described in the form below. Append all pertinent comparative trial and evaluation data. The symbol "▲" indicates decimal.

COMPARISON VARIETIES FOR USE BELOW

- |               |               |              |                                     |
|---------------|---------------|--------------|-------------------------------------|
| 1 = Astoria   | 2 = Exeter    | 3 = Highland | 4 = Seaside                         |
| 5 = Penncross | 6 = Kingstown | 7 = Astra    | 8 = Other (Please Specify): SR 7200 |

1. SPECIES

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> 1 = Colonial (browntop) <i>A. tenuis</i> | <input type="checkbox"/> 2 = Creeping <i>A. stolonifera</i> ( <i>A. palustris</i> ) |
| <input type="checkbox"/> 3 = Velvet <i>A. canina</i> ssp. <i>canina</i>      | <input type="checkbox"/> 4 = Brown Bent <i>A. canina</i> ssp. <i>montana</i>        |
| <input type="checkbox"/> 5 = Red Top <i>A. gigantea</i>                      |   |

2. ADAPTATION (0 = Not Tested, 1 = Not Adapted, 2 = Adapted)

- |   |   |   |   |
|---|---|---|---|
| <input checked="" type="checkbox"/> Northeast               | <input checked="" type="checkbox"/> Southeast | <input checked="" type="checkbox"/> North Central | <input checked="" type="checkbox"/> Pacific N. W. |
| <input checked="" type="checkbox"/> Other (Please Specify): |   |   |   |

3. MATURITY (At first anthesis): Use comparison varieties June 18

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> 04 Days earlier than | <input checked="" type="checkbox"/> 5 COMPARISON VARIETY |
| Maturity the same as                                     | <input checked="" type="checkbox"/> 8 COMPARISON VARIETY |
| <input type="checkbox"/> Days later than                 | <input type="checkbox"/> COMPARISON VARIETY              |

4. HEIGHT (Average of longest 10 shoots from soil surface to top of head)

- |   |  |  |
|---|--|--|
| <input checked="" type="checkbox"/> 046 cm Height (at maturity) | <input checked="" type="checkbox"/> 14 cm Shorter than | <input checked="" type="checkbox"/> 5 COMPARISON VARIETY |
|   | Height the same as                                     | <input checked="" type="checkbox"/> 8 COMPARISON VARIETY |
|   | <input type="checkbox"/> cm Taller than                | <input type="checkbox"/> COMPARISON VARIETY              |



☐ ☐ ☐ % Prostrate ☐ ☐ ☐ % Decumbent ☐ ☐ ☐ % Genucate ☐ ☐ ☐ % Erect

## VEGETATIVE REPRODUCTION

Rhizomes: ☐ 1 = Absent ☐ 2 = Present

Stolons: ☐ 1 = Absent ☐ 2 = Present

☐ ☐ ☐ % Rhizomes ☐ ☐ ☐ % Stolons

200 100 290

## 7. LEAF BLADE

Color: ☐ 1 = Yellowish Green (Cohansey) 2 = Light Green (Washington)  
3 = Green (Exeter) 4 = Dark Green (Kingstown, Tracenta)  
5 = Bluish Green (Highland) 6 = Other (Please Specify): None

Texture: (fineness) ☐ 1 = Very Fine (Kingstown) 2 = Fine (Exeter)  
3 = Medium Fine (Astoria) 4 = Medium (Seaside)  
5 = Medium Coarse (Virginia) 6 = Coarse (Vermont)

☐ ☐ ☐ Stomatal density of upper leaf surface per sq. mm

Lower Surface: ☐ ☐ ☐ % Smooth ☐ ☐ ☐ % Rough

Upper Surface: ☐ ☐ ☐ % Smooth ☐ ☐ ☐ % Rough

Margins: ☐ ☐ ☐ % Smooth ☐ ☐ ☐ % Rough

☐ ☐ ☐ mm Width (Average of 10) ☐ ☐ ☐ mm Narrower than ..... ☐ COMPARISON VARIETY

Width same as ..... ☐ COMPARISON VARIETY

☐ ☐ ☐ mm Wider than ..... ☐ COMPARISON VARIETY

☐ ☐ ☐ mm Width (Flag Leaves) ☐ ☐ ☐ cm Length (Flag Leaves)

## 8. LEAF SHEATH

Anthocyanin: ☐ 1 = Absent ☐ ☐ ☐ ☐ % Red Sheaths  
2 = Present

## 9. LIGULE (lower and middle leaves)

Shape at Apex: ☐ ☐ ☐ % Acute ☐ ☐ ☐ % Rounded ☐ ☐ ☐ % Truncate

☐ ☐ ☐ % Other (Please Specify):

Pubescence: ☐ ☐ ☐ % Glabrous ☐ ☐ ☐ % Pubescent

Margins: ☐ ☐ ☐ % Entire ☐ ☐ ☐ % Toothed

☐ ☐ ☐ % Other (Please Specify):

☐ ☐ ☐ mm Length

## 10. LEMMA

Shape: ☐ ☐ ☐ ☐ % Lanceolate ☐ ☐ ☐ ☐ % Ovate

8

	<input type="text" value="0"/> <input type="text" value="5"/> <input type="text" value="3"/> % O g	<input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="0"/> % Other (Please Spec _____)
<input type="text" value="0"/> <input type="text" value="5"/> mm Width	<input type="text" value="1"/> <input type="text" value="0"/> mm Length (Exclusive of awn)	
Color:	<input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="3"/> % Buff	<input type="text" value="0"/> <input type="text" value="9"/> <input type="text" value="7"/> % Silvery
	<input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="0"/> % Other (Please Specify): _____	
Surface:	<input type="text" value="0"/> <input type="text" value="9"/> <input type="text" value="0"/> % Glossy	<input type="text" value="0"/> <input type="text" value="1"/> <input type="text" value="0"/> % Dull
Texture:	<input type="text" value="1"/> <input type="text" value="0"/> <input type="text" value="0"/> % Smooth	<input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="0"/> % Punctate
Pubescence:	<input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="0"/> % Glabrous	<input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="0"/> % Sparse
	<input type="text" value="1"/> <input type="text" value="0"/> <input type="text" value="0"/> % Copious	
Basal Hairs:	<input type="text" value="1"/> <input type="text" value="0"/> <input type="text" value="0"/> % Absent	<input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="0"/> % Few
	<input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="0"/> % Many	<input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="0"/> % Short
	<input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="0"/> % Long	<input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="0"/> % Appressed
	<input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="0"/> % Ascending	<input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="0"/> % Spreading
Awns:	<input type="text" value="0"/> <input type="text" value="2"/> <input type="text" value="0"/> % Absent	<input type="text" value="0"/> <input type="text" value="8"/> <input type="text" value="0"/> % Few
	<input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="0"/> % Many	<input type="text" value="0"/> <input type="text" value="4"/> <input type="text" value="6"/> % Awn-pointed
	<input type="text" value="0"/> <input type="text" value="6"/> <input type="text" value="1"/> % Short	<input type="text" value="0"/> <input type="text" value="3"/> <input type="text" value="9"/> % Long
	<input type="text" value="0"/> <input type="text" value="2"/> <input type="text" value="1"/> % Straight	<input type="text" value="0"/> <input type="text" value="7"/> <input type="text" value="9"/> % Geniculate
Awn Insertion on Lemma:	<input type="text" value="0"/> <input type="text" value="1"/> <input type="text" value="3"/> % Basal	<input type="text" value="0"/> <input type="text" value="8"/> <input type="text" value="7"/> % Middle
	<input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="0"/> % Distal	

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## 11. ✓ PANICLE

Type (in anthesis):	<input type="text" value="0"/> <input type="text" value="4"/> <input type="text" value="8"/> % Open	<input type="text" value="0"/> <input type="text" value="5"/> <input type="text" value="2"/> % Compact
Anthocyanin:	<input type="text" value="0"/> <input type="text" value="1"/> <input type="text" value="7"/> % Absent	<input type="text" value="0"/> <input type="text" value="8"/> <input type="text" value="3"/> % Present
Branches in Anthesis:	<input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="5"/> % Appressed	<input type="text" value="0"/> <input type="text" value="9"/> <input type="text" value="5"/> % Ascending
	<input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="0"/> % Spreading	
Branches in Fruit:	<input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="8"/> % Appressed	<input type="text" value="0"/> <input type="text" value="9"/> <input type="text" value="1"/> % Ascending
	<input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="1"/> % Spreading	
Branch Surface:	<input type="text" value="0"/> <input type="text" value="1"/> <input type="text" value="0"/> % Smooth	<input type="text" value="0"/> <input type="text" value="9"/> <input type="text" value="0"/> % Scabrous

Panicle Length = 8.4 cm, SR 7200 = 11.1 cm

## 12. SEED

 Grams per 1000 seed

## 13. SPRING GREEN UP

 1 = Early (Exeter)    2 = Medium (Astoria)    3 = Late (Kingstown)

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## ENVIRONMENTAL RESISTANCE

(0 = Not Tested, 1 = Susceptible, 2 = Resistant)

☒ Cold☒ Heat☒ Drought☐ Shade☐ Other (Please Specify):

None

## 15. DISEASE RESISTANCE

(0 = Not Tested, 1 = Susceptible, 2 = Resistant)

☒ Red Leaf Spot (*Drechslera erythrospila*)☐ Melting Out (*Drechslera poae* (*Helminthosporium vagans*))☐ Pythium Blight (*P. aphanidermatum*)☐ Fusarium Blight (*F. roseum*)☒ Fusarium Patch (Pink Snow Mold) (*F. nivale*)☐ Ophiobolus Patch (*O. graminis*)☐ Copper Spot (*Gloeocercospora sorghi*)☐ Red Thread (*Corticium fufiforme*)☐ Stem Rust (*Puccinia graminis*)☐ Leaf Rust (*P. poae-nemorals*)☒ Helminthosporium Leaf Spot (*Bipolaris sorokiniana*)☒ Dollar Spot (*Sclerotinia homoeocarpa*)☒ Pythium Blight (*P. ultimum*)☐ Fusarium Blight (*F. tricinctum*)☐ Powdery Mildew (*Erysiphe graminis*)☐ Stripe Smut (*Ustilago striiformis*)☐ Typhula Blight (Snow Scald) (*T. incarnata*)☒ Brown Patch (*Rhizoctonia solani*)☐ Crown Rust (*P. coronata*)☒ Other (Please Specify): Downy mildew

## 16. INSECT RESISTANCE

(0 = Not Tested, 1 = Susceptible, 2 = Resistant)

☐ European Chafer (*Amphimallon solstitialis*)☐ Chinch Bug (*Blissus insularis*)☐ Armyworm (Cutworm) (*Pseudaletia unipuncta*)☐ Garden Chafer (*Phyllopertha horticola*)☐ Webworm (*Crambus* spp.)☐ Other (Please Specify): None

17. GIVE VARIETY(S) THAT MOST CLOSELY RESEMBLE THE SUBMITTED VARIETY: For the following characteristics indicate the degree of resemblance (D.R.) with one of the following numbers: 1 = submitted variety is less than, lighter, or inferior to similar variety, 2 = Same as, 3 = More than, darker or superior, etc.

Character	Similar Variety	D.R.	Character	Similar Variety	D.R.
Growth Habit	SR 7200	2	Leaf Color	SR 7200	2
Awn Length	SR 7200	3	Panicle Type	SR 7200	2
Seed Weight	SR 7200	2	Turf Fineness	SR 7200	2 (2nd year turf)
Cold Resistance	SR 7200	2	Heat Resistance	SR 7200	2 (2nd year turf)
Drought Resistance	SR 7200	2	Shade Resistance		
Brown Patch	SR 7200	2			

## 18. COMMENTS

D.R. for turf fineness and heat resistance observed from NTEP trials, 2000 progress report (no. 01-2).

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Table 1. Genetic color rating of bentgrass cultivars grown on a green during the 1999 and 2000 seasons at Urbana, IL, Stillwater, OK, and Madison, WI.†

Accession	Location‡		
	IL	OK	WI
<b>Vesper</b>	<b>7.0</b>	<b>8.7</b>	<b>5.7</b>
SR 7200	6.0	7.7	4.3
Bavaria	5.7	7.0	3.3
LSD@0.05	0.8	0.8	1.2

† Data condensed from the National Bentgrass Test - 1998 (putting green), established by National Turfgrass Evaluation program (NTEP) progress report from 2001, NTEP no. 02-3.

‡ Scores given for replicated turf plots of each accession using a 1-9 scale; 9 = dark green.

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Table 2. Spring green-up ratings of bentgrass cultivars grown on a green during the 1999 and 2000 seasons at Amherst, MA.†

Accession	Spring green-up‡	
	1999	2000
<b>Vesper</b>	<b>5.0</b>	<b>5.0</b>
SR 7200	6.7	6.7
Bavaria	6.0	6.0
LSD@0.05	1.5	1.4

† Data condensed from the National Bentgrass Test - 1998 (putting green), established by National Turfgrass Evaluation program (NTEP) progress reports from 1999 and 2000, NTEP nos. 00-1 and 01-2, respectively.

‡ Scores given for replicated turf plots of each accession using a 1-9 scale; 9 = completely green.

U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE**EXHIBIT E**  
**STATEMENT OF THE BASIS OF OWNERSHIP**

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S) Pickseed West, Inc.	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER  Pick MVB	3. VARIETY NAME  Vesper
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)  30190 Hwy 34 SW Albany, OR 97321	5. TELEPHONE (include area code)  541-967-0123	6. FAX (include area code)  541-967-6103
7. PVPO NUMBER  200100290		

8. Does the applicant own all rights to the variety? Mark an "X" in appropriate block. If no, please explain. ☒ YES ☐ NO9. Is the applicant (individual or company) a U.S. national or U.S. based company?  
If no, give name of country ☒ YES ☐ NO10. Is the applicant the original owner? ☒ YES ☐ NO If no, please answer one of the following:

a. If original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. national(s)?

☐ YES ☐ NO If no, give name of country

b. If original rights to variety were owned by a company(ies), is(are) the original owner(s) a U.S. based company?

☐ YES ☐ NO If no, give name of country

11. Additional explanation on ownership (if needed, use reverse for extra space):

**PLEASE NOTE:**

Plant variety protection can be afforded only to owners (not licensees) who meet one of the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definition.

According to the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 10 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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